

Mirapic AS-839L

Liquid Acid Salts
Technical Data

GENERAL DESCRIPTION

Mirapic AS-839L is a liquid version of **Acid Salt 839**. It is a blend of acid salts and surfactants. **Mirapic AS-839L** is used for activating steel, copper alloys, and zinc.

Unlike conventional mineral acids, dilution with water products produces less heat. Normal precautions when working with mineral acids should be observed.

NORMAL USE

Concentration	10 – 100% by volume.
Temperature	60 - 180° F (16-82° C)
Time	15 seconds to 5 minutes

SUGGESTED OPERATING CONDITIONS

Cold rolled steel prior to nickel:

Operate at 50% at room temperature for 15 seconds to 2 minutes.

Hot rolled steel, welded steel, or heat treated parts:

Operate at 50% at 130° F (55° C) for 30 seconds to 5 minutes.

Zinc Die Castings:

Operate at 25% at room temperature for 30 seconds.

Copper Plated or Buffed Brass:

Operate at 35% at room temperature for 10 seconds to 1 minute.

Nickel Activation:

Operate at 50% at 120° F (49° C) for one minute.

Chrome Stripping:

Operate at 16 – 59 ounces per gallon (120 – 440 g per L) at 180° F (82° C) for 1 to 3 minutes.

Activation and scale removal using current:

Cathode (work as cathode)

Current Density	45 – 100 ASF (4.5 – 10 ASD)
Voltage	1 – 6 Volts
Anodes	Graphite (AGR Type)
Anode/Work Area	2 : 1

EQUIPMENT REQUIREMENTS

Tanks:

Koroseal lined tank satisfactory to 150° F (66° C). High temperature rubber is recommended for temperatures exceeding 150° F (66° C). At room temperature, rubber, polyethylene, PVC or polypropylene are satisfactory.

Heating Coils:

Karbate, graphite, Teflon.

Ventilation:

Karbate, graphite, Teflon.

NORMAL CONTROL

Analytical Method (Equipment available from Chautauqua Chemicals Co.)

1. Pipette a 10 mL sample into a 250 mL Erlenmeyer flask.
2. Add 50 mL of distilled water.
3. Add 3-5 drops of bromcresol green indicator.
4. Titrate with 0.50N sodium hydroxide till solution turns green.
5. Calculation: Percent Concentration of **Mirapic AS-839L** = mLs of 0.50N NaOH x 4.2

HANDLING AND SAFETY CONSIDERATIONS

Consult MSDS sheet on this product for handling considerations, hazard information, and first aid procedures.

OTHER INFORMATION

No warranty, expressed or implied of merchantability fitness for a particular purpose or otherwise, is made. Buyer assumes all risk of use, storage and handling. Chautauqua Chemicals Company, Inc. shall not be made liable for any incidental or consequential damages arising directly or indirectly in connection with the purchase, storage, handling or disposal of this product.

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